sapience
Consultants and Engineers
(Building, Geo-Tech & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,
Valagerahalli, Mysore Road, Bangalore 560059
Ph: 9448853634, 8762194386.
Email: sapiencebangalore@gmail.com

QC-ABSTRACT

Name of Work:-: Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore

Sl No.	Item	Quantity As Per BOQ	Required No's of tests	Actual No's of tests	Tests
1	~~Material~~	–	1	1	Cement
2					Sand,
3	GSB	2597.59 Cum			
	Gradation		13	13	–
4	WMM	4387.01 Cum			
	Gradation	-	44	44	-
	AIV	-	22	22	-
	Shape test	-	22	22	-
	Attenberg limit	-	44	44	-
5	DBM	942.93Cum			-
	Quality Binder		1	1	-
	Aggregate Impact Value		20	20	-
	Shape Test		20	20	-
	Specific gravity		1	1	-
	Stability Of Mix		4	4	-
	Gradation		1	1	-
	Bitumin Content		10	10	-
6	BC	628.79Cum			-
	Quality Binder		1	1	-
	Aggregate Impact Value		13	13	-
	Shape Test		13	13	-
	Specific gravity		1	1	-
	Stability Of Mix		4	4	-
	Gradation		1	1	-
	Bitumin Content		5	5	-

For Sapience Consultants & Engineers

Authorised Signatory

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Job No.: SCE/BBMP/CKG/W.No.14/2022-2023

TEST REPORT ON CEMENT

Client : **Assistant Executive Engineer,** Shettyhalli sub Division, BBMP, Bangalore.

Agency : **Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited),** Contractor, Bangalore.

Name of Work Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore

Sample ID: : Cement (Birla Super 53 grade OPC)

Sample Supplied by: : AGENCY

Date of Manufacture: : May- 2022

Date of Testing 01.06.2022 to 03.06.2022

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	320 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.50%	-

Note:

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3. Any Query regarding the report must be reported within 30days from the date of testing.

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No: SCE/BBMP/CKG/W.No.14/2022-2023 Date 03.06.2022

GRADATION FOR GSB (Grading V)

Client : : **Assistant Executive Engineer,** Shettyhalli sub Division, BBMP, Bangalore.

Agency: : **Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited),** Contractor, Bangalore.

Name of work: Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore

BIS Code: IS 2386 Part (1):1963
IS 2720 part (5):1985

Date of Testing 01.06.2022 to 03.06.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	1604	1604	12.34	87.66	80-100
26.5	2065	3669	28.22	71.78	55-90
9.5	2078	5747	44.21	55.79	35-65
4.75	1756	7503	57.72	42.28	25-50
2.36	3256	10759	82.76	17.24	10-20
0.85	1725	12484	96.03	3.97	2-10
0.425	215	12699	97.68	2.32	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	21.50	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

For Sapience Consultants & Engineers

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

Authorised Signatory

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JobNo: SCE/BBMP/CKG/W.No.14/2022-2023 Date 03.06.2022

GRADATION FOR GSB (Grading V)

Client :

Agency: **: Assistant Executive Engineer,** Shettyhalli sub Division, BBMP, Bangalore.
: Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Bangalore.

Name of work: Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore

BIS Code: IS 2386 Part (1):1963
IS 2720 part (5):1985

Date of Testing 01.06.2022 to 03.06.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	1586	1586	12.20	87.80	80-100
26.5	2035	3621	27.85	72.15	55-90
9.5	2074	5695	43.81	56.19	35-65
4.75	1732	7427	57.13	42.87	25-50
2.36	3263	10690	82.23	17.77	10-20
0.85	1705	12395	95.35	4.65	2-10
0.425	210	12605	96.96	3.04	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	18.50	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

For Sapience Consultants & Engineers

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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GRADATION FOR GSB (Grading V)

Client :

Agency: **: Assistant Executive Engineer,** Shettyhalli sub Division, BBMP, Bangalore.
: Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Bangalore.

Name of work: Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore

BIS Code: IS 2386 Part (1):1963
IS 2720 part (5):1985

Date of Testing 01.06.2022 to 03.06.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	1545	1545	11.88	88.12	80-100
26.5	2063	3608	27.75	72.25	55-90
9.5	2075	5683	43.72	56.28	35-65
4.75	1736	7419	57.07	42.93	25-50
2.36	3245	10664	82.03	17.97	10-20
0.85	1870	12534	96.42	3.58	2-10
0.425	201	12735	97.96	2.04	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	19.50	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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GRADATION FOR GSB (Grading V)

Client :

Agency: : **Assistant Executive Engineer,** Shettyhalli sub Division, BBMP, Bangalore.
: **Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited),** Contractor, Bangalore.

Name of work: Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore

BIS Code: IS 2386 Part (1):1963
IS 2720 part (5):1985

Date of Testing 01.06.2022 to 03.06.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	1485	1485	11.42	88.58	80-100
26.5	2055	3540	27.23	72.77	55-90
9.5	2065	5605	43.12	56.88	35-65
4.75	1710	7315	56.27	43.73	25-50
2.36	3165	10480	80.62	19.38	10-20
0.85	1745	12225	94.04	5.96	2-10
0.425	215	12440	95.69	4.31	0-5

Table 2

SL No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	21.50	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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JobNo: SCE/BBMP/CKG/W.No.14/2022-2023 Date 04.06.2022

GRADATION FOR GSB (Grading V)

Client : **: Assistant Executive Engineer,** Shettyhalli sub Division, BBMP, Bangalore.

Agency: **: Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited),** Contractor, Bangalore.

Name of work: Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore

BIS Code: IS 2386 Part (1):1963
IS 2720 part (5):1985

Date of Testing 02.06.2022 to 04.06.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	1515	1515	11.65	88.35	80-100
26.5	2085	3600	27.69	72.31	55-90
9.5	2045	5645	43.42	56.58	35-65
4.75	1748	7393	56.87	43.13	25-50
2.36	3269	10662	82.02	17.98	10-20
0.85	1785	12447	95.75	4.25	2-10
0.425	206	12653	97.33	2.67	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	23.50	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

For Sapience Consultants & Engineers

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

Authorised Signatory

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JobNo: SCE/BBMP/CKG/W.No.14/2022-2023 Date 04.06.2022

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BIS Code: IS 2386 Part (1):1963
IS 2720 part (5):1985

Date of Testing 02.06.2022 to 04.06.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	1507	1507	11.59	88.41	80-100
26.5	2069	3576	27.51	72.49	55-90
9.5	2084	5660	43.54	56.46	35-65
4.75	1745	7405	56.96	43.04	25-50
2.36	3356	10761	82.78	17.22	10-20
0.85	1748	12509	96.22	3.78	2-10
0.425	232	12741	98.01	1.99	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	20.50	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

For Sapience Consultants & Engineer

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಜಿಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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JobNo: SCE/BBMP/CKG/W.No.14/2022-2023 Date 04.06.2022

GRADATION FOR GSB (Grading V)

Client : **: Assistant Executive Engineer,** Shettyhalli sub Division, BBMP, Bangalore.

Agency: **: Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited),** Contractor, Bangalore.

Name of work: Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore

BIS Code: IS 2386 Part (1):1963
IS 2720 part (5):1985

Date of Testing 02.06.2022 to 04.06.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	1485	1485	11.42	88.58	80-100
26.5	2062	3547	27.28	72.72	55-90
9.5	2048	5595	43.04	56.96	35-65
4.75	1788	7383	56.79	43.21	25-50
2.36	3165	10548	81.14	18.86	10-20
0.85	1848	12396	95.35	4.65	2-10
0.425	186	12582	96.78	3.22	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	20.60	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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BIS Code: IS 2386 Part (1):1963
IS 2720 part (5):1985

Date of Testing 02.06.2022 to 04.06.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	1465	1465	11.27	88.73	80-100
26.5	2099	3564	27.42	72.58	55-90
9.5	2078	5642	43.40	56.60	35-65
4.75	1845	7487	57.59	42.41	25-50
2.36	3145	10632	81.78	18.22	10-20
0.85	1854	12486	96.05	3.95	2-10
0.425	206	12692	97.63	2.37	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	18.10	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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